AMENDMENT TO THE SPECIFICATION

At the top of the first page, before the first section, please insert:

-- Cross Reference to Related Applications

This is a continuation of U.S. Patent Application Serial Number 09/746,147, filed 12/22/2000, which is a continuation of U.S. Patent Application Serial Number 09/001,869, filed 12/31/1997, which is a continuation-in-part to U.S. Patent Application Serial Number 09/979,588, filed 11/26/1997. –

Please amend the paragraph beginning at page 58, line 13, as follows:

Please amend the paragraph beginning at page 59, line 2, as follows:

where w and h are the width and height, respectively, of the pattern 100 in pixels and the floor function gives the largest integer that is less than or equal to its argument. Note that subsampling by n means taking every nth pixel. The low-pass filter 310 uses a filter size parameter ("s" in-co-pending US patent application Serial No. _______, filed 11/14/97 U.S. Patent No. 6,457,032, issued 9/24/02, entitled "Efficient Flexible Digital Filtering") equal to one less than the computed sub-sample amount. The Cartesian to polar conversion module 340 multiplies the gradient magnitude values by 2.0 to improve precision at the low end, where most gradient values lie.